Patent claims

1. A system for operation of an electric generator from a main engine having a varying rotational speed, comprising

a variable hydraulic pump connected to and driven from the main engine,

a hydraulic motor arranged to be driven by the hydraulic pump and to drive the electric generator,

a means for regulating the oil quantity from the pump in dependence on supplied electric control signals, and

an electronic frequency controller which is connected between a voltage output of the generator and the regulating means, and is arranged to deliver said control signals in dependence on frequency deviations on the generator output to thereby maintain the oil quantity from the pump, and therewith the generator frequency, constant.

2. A system according to claim 1, wherein said regulating means is constituted by a proportional valve converting an electric input signal to a hydraulic input signal influencing a servo piston, the servo piston being arranged to influence the pump displacement proportionally to said hydraulic input signal.

3. A system according to claim 1, wherein a transformer is arranged between a voltage output of the generator and the frequency controller, for transforming down the frequency signal from the generator to a desired voltage value.

4. A system according to any one of the claims 1-3, wherein the frequency controller comprises a processor unit which is arranged to control the different functions of the frequency controller, and to be influenced by switches and operating means for adjustment of operational parameters of the frequency controller.

5. A system according to any one of the claims 1-3, wherein the frequency controller comprises a number of control switches for setting operational parameters of the frequency controller to desired predetermined values.